

FORM PTO-1449

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Attorney Docket Number

36792/CAG/B600

Application Number

09/643,920

Filing Date

August 23, 2000

Applicant(s)

Onur Tackin et al.

Group Art Unit

To be assigned 2666

Examiner Name

To be assigned DVONZ, F

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
FD	SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS, Automatic level control devices, 06/99, pages 1-52, Recommendation G.169, International Telecommunication Union

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EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TD	6,141,341	10/2000	Jones et al.	370	352	—

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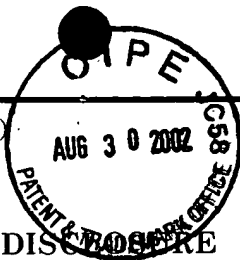
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FORM PTO/SB/08A/B (10-01)
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To be Assigned *Duong, P*

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - kind code ² . (if known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>FD</i>		4,285,060	08-18-1981	Cobb et al.
		4,617,676	10-14-1986	Jayant et al.
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		5,793,498	08-11-1998	Scholl et al.
		5,818,929	10-06-1998	Yaguchi
<i>FD</i>		5,852,630	12-22-1998	Langberg et al.

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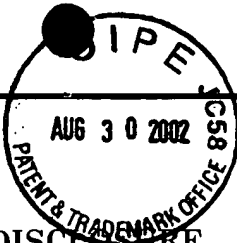
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Examiner Name To be Assigned Duong, P

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EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - kind code ² . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
TD		5,859,671	01-12-1999	Kim
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EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)
		WO 97/26753 A1	07-24-1997	I-Link-Worldwide, Inc.	
		WO 97/28628 A1	08-07-1997	Labs of Advanced Technologies International Corporation	

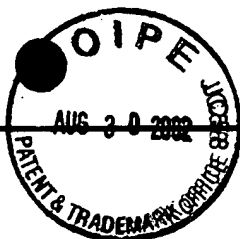
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no		R. W. LUCKY, <i>QAM Receiver I. General Description of Complete Receiver Block Diagram and Details of the Symbol Clock-Recovery-and-Other-Front-End-Subsystems</i> , Applications of Communications Theory, Chapter 13, pages 127-135, Bellcore
		R. W. LUCKY, <i>QAM Receiver II. The Passband Adaptive Equalizer and Carrier Recovery System</i> , Applications of Communications Theory, Chapter 14, Pages 137-151, Bellcore
Copies		EDWARD A. LEE et al., <i>Adaptive Equalization</i> , Digital Communication, Chapter 9, pages 371-402
		EDWARD A. LEE et al., <i>Timing Recovery</i> , Digital Communication, Chapter 15, Pages 560-582
Provided!		WILLIAM WEBB et al., <i>Basic Equaliser Techniques</i> , Modern Quadrature Amplitude Modulation, Principles and Applications for Fixed and Wireless Communications, IEEE Press, New York, Chapter 7, Pages 197-211
		MIKE GRAY, <i>FAX Technology Tutorial and Testing Issues</i> , Agilent Technologies, ©2000, pages 1-20
Not		<i>FAX Over IP Opportunities and Options</i> , Natural MicroSystems, 7 sheets
		EIA/TIA-464-B, <i>Requirements for Private Branch Exchange (PBX) Switching Equipment</i> , "6 Signaling Requirements, 6.1 Network Signaling - Analog," pages 140-146
Can		MAN MOHAN SONDDHI et al., <i>Silencing Echoes on the Telephone Network</i> , Proceedings of the IEEE, © August 1980, Vol. 68, No. 8, pages 948-963
Id		JOHN G. PROAKIS, <i>Digital Signaling Over a Channel With Intersymbol Interference</i> , Digital Communications, ISBN 0-07-05097-1, © 1983, Pages 357-381, McGraw-Hill, Inc.
		BELL COMMUNICATIONS RESEARCH, <i>Dual-Tone Multifrequency Receiver Generic Requirements for End-to-End Signaling Over Tandem-Switched Voice Links</i> , © March 1987, Technical Reference TR-TSY-000181 Issue 1, 11 sheets
		BELL COMMUNICATIONS RESEARCH, <i>Impulse Noise Tape No. 201</i> , Technical Reference TR-TSY-000762 Issue 1, © July 1987, 4 sheets

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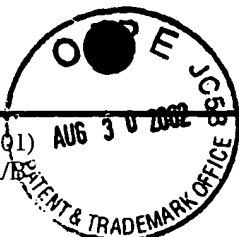
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EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		BELL COMMUNICATIONS RESEARCH, <i>Digit-Simulation Test Tape</i> , Technical Reference PR-TSY-000763 Issue 1, © July 1987, 6 sheets
nat		JOHN A.C. BINGHAM, <i>Timing Recovery</i> , The Theory and Practice of Modem Design, © 1988, Chapter 7, pages 189-236, John Wiley & Sons, Inc.
		JOHN A.C. BINGHAM, <i>Linear Adaptive Equalizers</i> , The Theory and Practice of Modem Design, © 1988, Chapter 8, pages 237-252, John Wiley & Sons, Inc.
Conc		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, Terminal Equipments, <i>Pulse Code Modulation (PCM) of Voice Frequencies</i> , ITU-T Recommendation, G. 711; © ITU1988, 1993; 8 sheets
11		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Transmission Systems and Media, Apparatus Associated With Long-Distance Telephone Circuits and Other Terminal Equipments, <i>Echo Suppressors</i> , ITU-T Recommendation, G. 164; © ITU 1988, 1993; 36 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, Terminal Equipments, <i>7-kHz Audio Coding Within 64 Kbit/s</i> , ITU Recommendation; G. 722; © ITU 1988, 1993; 76 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Recommendations On Telephone Switching and Signalling, International Automatic and Semi-Automatic Working, <i>Technical Features of Push-Button Telephone Sets</i> , ITU-T Recommendation; Q 23; © ITU 1988, 1993, 4 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Recommendations on Telephone Switching and Signalling, International Automatic and Semi-Automatic Working, <i>Multifrequency Push-button Signal Reception</i> , ITU-T Recommendation, Q. 24, © ITU 1988, 1993, 7 sheets

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<i>ko+</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, 300 Bits Per Second Duplex Modem Standardized For Use in The General Switched Telephone Network , ITU-T Recommendation V. 21; © ITU 1988, 1993; 7 sheets
<i>C</i>		INTERNATIONAL TELECOMMUNICATION UNION, Data Communication Over The Telephone Network, 1200 Bits Per Second Duplex Modem Standardized For Use In The General Switched Telephone Network And On Point-To-Point 2-Wire Leased Telephone-Type Circuits , ITU-T Recommendation V.22, © ITU 1988, 1993; 16 sheets
<i>oh</i>		INTERNATIONAL TELECOMMUNICATION UNION, Data Communication Over The Telephone Network, 2400 Bits Per Second Duplex Modem Using The Frequency Division Technique Standardized For Use On The General Switched Telephone Network And On Point-To-Point 2-Wire Leased Telephone-Type Circuits , ITU-T Recommendation V.22 bis, © 1988, 1993; 18 sheets
<i>nd</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, 4800/2400 Bits Per Second Modem Standardized For Use in The General Switched Telephone Network , ITU-T Recommendation, V.27 ter, © ITU 1988, 1993; 15 sheets
<i>y</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, 9600 Bits Per Second Modem Standardized For Use On Point-To-Point 4-Wire Leased Telephone-Type Circuits , ITU-T Recommendation, V. 29, © ITU 1988, 1993, 17 sheets
		FUYUN LING et al., Convergence and Steady-State Behavior of a Phase-Splitting Fractionally Spaced Equalizer , IEEE Transactions on Communications, © April 4, 1990, Vol. 38, No. 4, pages 418-425, IEEE
		PAUL FISCHER, State Machines In C , The C Users Journal, December 1990, pages 119-122

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hdt		INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, Data Communication Over the Telephone Network, Data Compression Procedures For Data Circuit Terminating Equipment (DCE) Using Error Correction Procedures , ITU-T Recommendation, V.42 bis; © ITU 1990; 29 sheets
Cou		INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, General Aspects of Digital Transmission Systems; Terminal Equipments, 40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM), ITU-T Recommendation, G.726; © 1990; 59 sheets
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		DENNIS R. MORGAN et al., AT & T Bell Laboratories; A Multi-Tone Pseudo-Cascade Filtered-X LMS Adaptive-Notch-Filter, Proceeding of the IEEE International Conference in Acoustic Speech and Signal Processing, ICASSP 91, Vol. 3 D, May 1991, Toronto, Ontario, Canada, pages 2093-2096

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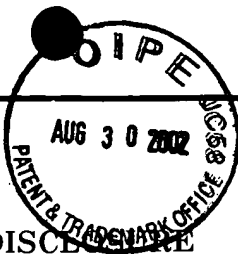
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not		JAMES THI et al., AT & T Bell Laboratories; <u>A Broadband Pseudo-Cascade Active Control System</u> , Proceeding of the IEEE International Conference in Acoustic Speech and Signal Processing; © 1992 IEEE; pp. II-233-II-236
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU; General Aspects of Digital Transmission Systems; Terminal-Equipments, <u>Coding of Speech at 16 kbit/s Using Low-delay Code Excited Linear Prediction</u> , Recommendation G. 728; 09/1992, 65 sheets
Considered		DENNIS R. MORGAN et al., AT & T Bell Laboratories, <u>A Multitone Pseudocascade Filtered-X LMS Adaptive Notch Filter</u> , IEEE Transactions on Signal Processing, Vol. 41, No. 2, © February 1993; pages 946-956
11/1		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Characteristics of International Telephone Connections and International Telephone Circuits, <u>Echo Cancellers</u> , ITU-T Recommendation G. 165; © ITU 1994; 31 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, Data Communication Over The Telephone Network, <u>A Family Of 2-Wire, Duplex Modems Operating At Data Signalling Rates Of Up To 9600 bit/s For Use On The General Switched Telephone Network And On Leased Telephone-Type Circuits</u> , ITU-T Recommendation V.32; © 1993; 26 sheets
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		GARDNER et al.; Qualcomm Inc.; <u>QCELP: A Variable Rate Speech Coder for CDMA Digital Cellular</u> , © 1993 by Kluwer Academic Publishers; Second Printing 1995; 9 sheets

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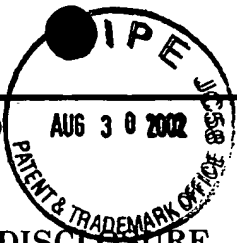
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not		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU; Data Communication Over The Telephone Network, A Modem Operating At Data Signalling Rates Of Up To 28 800 bit/s For Use On The General Switched Telephone Network And On Leased Point-To-Point 2-Wire Telephone-Type Circuits , ITU-T Recommendation V.34; © ITU 1994; 43 sheets
Considered		INTERNATIONAL TELECOMMUNICATION UNION ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, Coding of Speech at 16 kbit/s Using Low-Delay Code-Excited Linear Prediction , Annex G: 16 kbit/s Fixed-Point Specification, ITU-T Recommendation G.728 - Annex G; © ITU 1995; 67 sheets
11		IEEE; IEEE Standards for Local and Metropolitan Area Networks: Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications; Media Access Control (MAC) Parameters, Physical Layer, Medium Attachment Units, and Repeater for 100 Mb/s Operation, Type 100BASE-T (Clauses 21-30); © 1995; 408 sheets
		DENNIS R. MORGAN et al., A Delayless Subband Adaptive Filter Architecture , IEEE Transactions on Signal Processing; Vol. 43, No. 8; © August 1995; pages 1819-1830
		Internet Papers: SCHULZRINNE H.; RTP Profile for Audio and Video Conferences with Minimal Control ; Network Working Group Request for Comments: 1890; http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc1890.html ; January 1996; 15 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, Dual Rate Speech Coder For Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s ; ITU-T Recommendation G. 723.1; © ITU 1996; 31 sheets

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Attorney Docket Number	36792/PAN/B600
Application Number	09/643,920
Filing Date	August 23, 2000
Applicant(s)	Onur Tackin et al
Group Art Unit	2645 2666
Examiner Name	To be Assigned

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not		INTERNATIONAL TELECOMMUNICATION UNION ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, <i>Coding of Speech at 8 kbit/s Using Conjugate-Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP)</i> ; ITU-T Recommendation G.729; © ITU 1996; 38 sheets
not		BELLCORE Bell Communication Research, Generic Requirements GR-506-CORE, <i>LSSGR: Signaling for Analog Interfaces</i> , (A Module of LSSGR, FR-64), Issue 1, © June, 1996; 240 sheets
Considered		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series T: Terminal Equipments and Protocols for Telematic Services, <i>Procedures for Document Facsimile Transmission in the General Switched Telephone Network</i> , ITU-T Recommendation T. 30; © ITU 1997; 74 sheets
111		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series T: Terminal Equipments and Protocols for Telematic Services, <i>Standardization of Group 3 Facsimile Terminals for Document Transmission</i> , ITU-T Recommendation T. 4; © ITU 1997; 61 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals By Methods Other Than PCM, <i>Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex A: Silence Compression Scheme</i> ; ITU-T Recommendation G.723.1 - Annex A; © ITU 1997; 22 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals by Methods Other Than PCM, "Coding of Speech at 8 kbit/s Using Conjugate Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP), Annex B: A Silence Compression Scheme For G.729 Optimized for Terminals Conforming to Recommendation V.70, ITU-T Recommendation G.729 - Annex B; © ITU 1997; 23 sheets

EXAMINER SIGNATURE	<i>Paul Orz</i>	DATE CONSIDERED	9/7/02
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Group Art Unit	2845 866
Examiner Name	To be Assigned Reich

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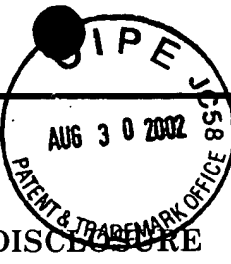
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<i>not</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals by Methods Other Than PCM, <u>Coding of Speech at 8 kbit/s Using Conjugate Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP) Annex A: Reduced Complexity 8 kbit/s CS-ACELP Speech Codec</u> , ITU-T Recommendation G.729 - Annex A; © ITU 1997; 15 sheets
<i>Considered</i>		European Telecommunication Standard, <u>Digital Cellular Telecommunications System; Half Rate Speech; Voice Activity Detector (VAD) for Half Rate Speech Traffic Channels (GSM 06.42 version 5.0.1)</u> ; Source ETS; TC-GSM; Reference DE/SMG-IT0642Q; © 1997; 21 sheets
<i>!!!</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T, Telecommunication Standardization Sector of ITU, Series I: Integrated Services Digital Network, Overall Network Aspects and Functions - Protocol Layer Requirements, <u>B-ISDN ATM Adaptation Layer Specification: Type 2 AAL</u> , ITU-T Recommendation I.363.2; © 1998; 47 sheets
		Internet Papers: PERKINS et al.; <u>RTP Payload for Redundant Audio Data</u> ; Network Working Group Request for Comments: 2198; http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc2198.html ; September 1997; pages 1-9
		Internet Papers: SCHULZRINNE, "RTP Profile for Audio and Video Conferences with Minimal Control," <u>Internet Engineering Task Force, Internet Draft</u> ; http://hegel.ittc.ukans.edu/topics/internet/internet-drafts/draft-i/draft-ietf-avt-profile-new-C.. ; November 20, 1997; pages 1-29
		IMTC Voice over IP Forum Technical Committee, "IMTC Voice over IP Forum Service Interoperability Implementation Agreement 1.0," December 1, 1997, VoIP97-061, pages 1-44
		EDWARD B. MORGAN, Fax Over Packet; Telogy Networks, Inc., Germantown, Maryland; © 1998; pages 1-12

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Wot		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series V: Data Communication Over The Telephone Network, A Modem Operating at Data Signalling Rates of up to 33 600 bit/s for Use on the General Switched Telephone Network and on Leased Point-to-Point 2-Wire Telephone-Type Circuits ; ITU-T Recommendation V. 34; © ITU 1998; 78 sheets
C. S. S.		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, SERIES T: TERMINALS FOR TELEMATIC SERVICES, Procedures for Real Time Group 3 Facsimile Communication Over IP Networks , ITU-T Pre-published Recommendation T. 38; © ITU 1998; 32 sheets
11		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series V: Data Communication Over the Telephone Network, Simultaneous Transmission of Data and Other Signals, A Digital Modem and Analogue Modem Pair For Use on the Public Switched Telephone Network (PSTN) at Data Signalling Rates of up to 56 000 bit/s Downstream and up to 33 600 bit/s Upstream , ITU-T Recommendation V. 90; © ITU 1999; 49 sheets
		FRAME RELAY FORUM TECHNICAL COMMITTEE, Voice over Frame Relay Implementation Agreement ; © 1998; 54 sheets
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series I: Integrated Services Digital Network, Overall Network Aspects and Functions - Protocol Layer Requirements, AAL-Type-2 Service Specific Convergence Sublayer For Trunking ; ITU-T Recommendation I.366.2; © ITU 1999; 96 sheets
		Internet Papers: SCHULZRINNE et al.; RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals; Network Working Group Request for Comments: 2833 ; © The Internet Society 2000; 31 sheets

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STATEMENT BY APPLICANT

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Attorney Docket Number 36792/PAN/B600

Application Number 09/643,920

Filing Date August 23, 2000

Applicant(s) Onur Tackin et al.

Group Art Unit 2645 2666

Examiner Name

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not		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Systems and Networks, International Telephone Connections and Circuits - Apparatus Associated With Long-Distance Telephone Circuits, Digital Network Echo Cancellers; ITU-T Recommendation G. 168; © ITU 1997; 95 sheets
		ETSI EN 300 973, GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS, Digital cellular telecommunications system (Phase-2+); Half-rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels; GSM 06.42 version 8.0.1 Release 1999), © 2000; pages 1-22

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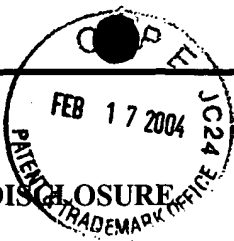
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Applicant(s)

Onur Tackin, et al.

Group Art Unit

2645 2666

Examiner Name

Not yet Assigned Duong, F

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - Kind Code ² (If Known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
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FOREIGN PATENT DOCUMENTS

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